

2011

Cylindrical bf3 neutron detector

GENERAL SPECIFICATIONS

MAXIMUM LENGTH (INCH/MM)	7.75/196.85
MAXIMUM DIAMETER (INCH/MM)	0.5/12.7
EFFECTIVE LENGTH (INCH/MM)	4.88/123.95
CATHODE MATERIAL (INTERNAL/EXTERNAL)	Aluminum
EFFECTIVE DIAMETER (INCH/MM)	0.43/10.92
CONNECTOR	Pin
OPERATING TEMPERATURE RANGE °C	-50 to +100
GAS PRESSURE (TORR)	150
EFFECTIVE VOLUME (CM ³)	11.61

ELECTRICAL SPECIFICATIONS

RECOMMENDED OPERATING VOLTAGE (VOLTS)	700
OPERATING VOLTAGE RANGE (VOLTS)	550 - 800

MAXIMUM PLATEAU SLOPE (%/100 VOLTS)	1
TUBE CAPACITANCE (PF)	8
WEIGHT (GRAMS)	85
MAXIMUM RESOLUTION (% FWHM)	10

THERMAL NEUTRON SENSITIVITY

SENSITIVITY (CPS/NV)	0.10
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